Headquarters U.S. Air Force

Integrity - Service - Excellen

Contractor Supported Weapon Systems (CSWS) Data Exchange (D375)

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D375 Data Exchange Overview

- **Overview:**
  - **Good news**
  - **What is available through the DE**
  - **Where we would like to go with the DE**
  - **Issues**
  - **System Demo**
  - **Training Demo**

CSWS Data Exchange (Good News)

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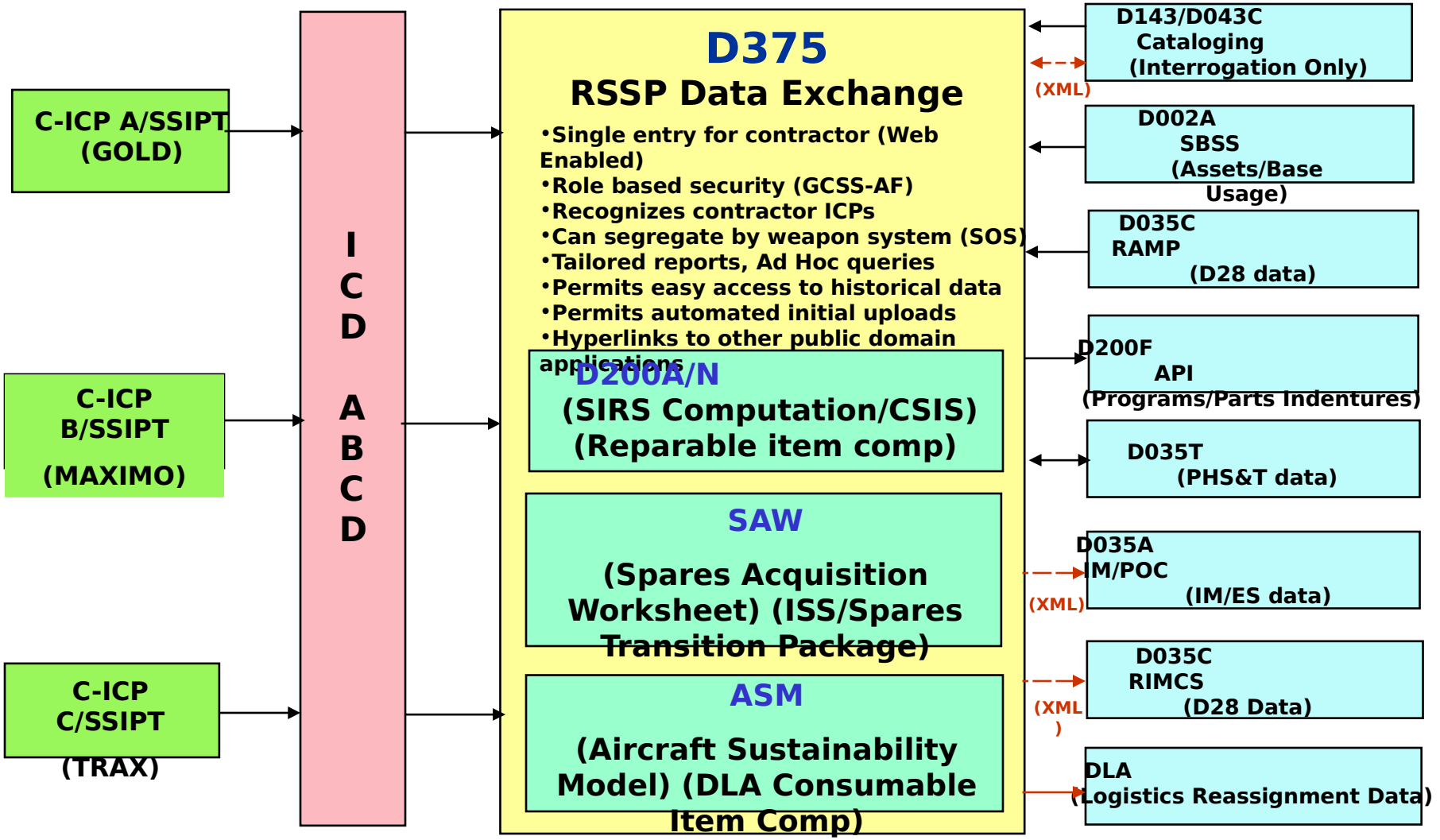
- **SLRSC: ITT provided Program data**
  - **Reparable item comp and Application/Program data – tested DE/D200A interface**
    - **Identified programming and ICD issues – corrections are being worked**
  - **Consumable item comp data – will allow testing of ASM module**

- **D035T: C17, F22 (airframe and engines), Global Hawk are using pkg & trans records**

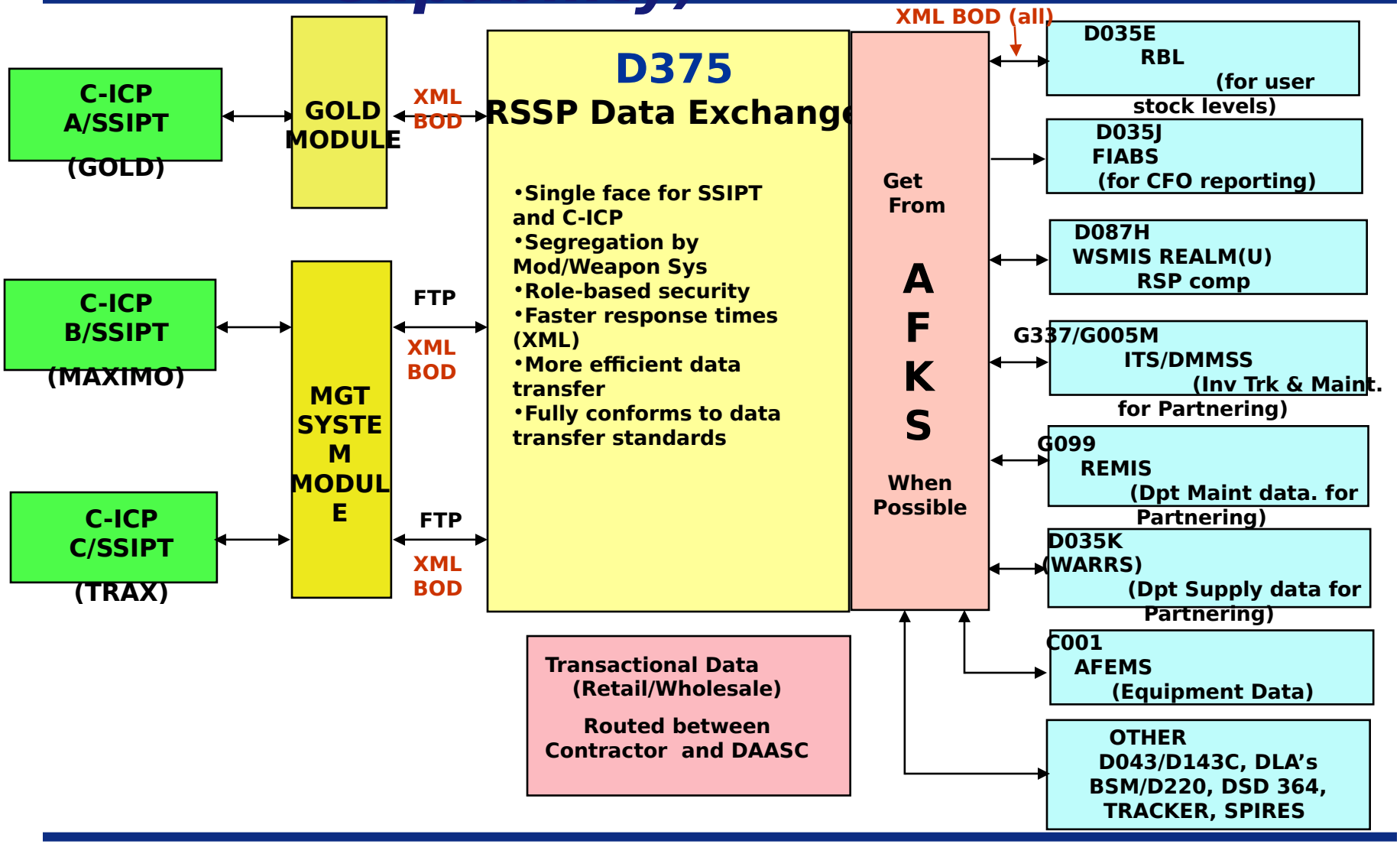
- **D035A & C: Global Hawk and Predator ready this month**
  - **CSRDs in-place, awaiting approval**
  - **Programs can auto transfer data to DE and we will provide to D035A &C (interim)**

- **SAW: 4 programs are using (AFSCN, SLRSC, SENSOR – BMEWS, PAVE PAWS)**

Data Exchange (Current Capability)



Data Exchange (Future Capability)



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CSWS DE Issues

- **If no immediate approval to spend FY04 CPP $s:**
  - **Depot Partnering/Users Group initiatives will be delayed**
    - **D035A, D035C, D035E, D035K, D087H, D200F, C001, CFO, ETC.**
  - **Workarounds become standard practice**
    - **LMA data for DLA comp (until available in AFKS)**
    - **DE accepts IM/ES and RIMCS data (FTP) for pass to D035A/C (CSRDs await funding)**
  - **Delays Movement to GCSS-AF Integration Framework**
    - **Data transfer more cumbersome, slower reaction times**
  - **Delays interaction with AFKS**
    - **Can't help with B-2/C-5 issues (.com to .mil)**
    - **Can't help with C-ICP needs for data from legacy systems**
  - **Will require ramp-up of new development Team**

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CSWS DE Issues (cont)

- **Should we continue to pursue the GOLD solution?**
  - **Complete data mapping for all new systems**
  - **Build tables and APIs necessary to support CSWS data sharing**
  - **Who should initiate actions**
  - **Who should pay**
- **Others?**

D375 Data Exchange Demonstration and Training Sessions

- **Demonstration:**
  - **Demonstrate Data Transfer processes (behind DISA firewall)**
  - **Explain differences of each process**
    - **Show File Transfer Protocol (FTP) process**
    - **Show Extensible Markup Language (XML) process**
- **Training:**
  - **Provide Training Package for D375**
    - **D375 White Paper, SAF/ILGP Policy Ltr, DISA Form 41s for user accounts and system to system transfers, required documents, Data Systems check sheet**
  - **Step through all CSWS Data System considerations**
    - **Contract considerations, Training available, File transfer requirements, SBSS, Cataloging, D375, etc.**
  - **Step through capabilities in D375 (what, where, how and why)**
    - **Program Management, Data Entry, Computations, Financial Management, Assessments, etc.**
  - **Provide hands-on, question and answer session**

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Data Transfer alternatives

Benefits	FTP	XML
Speed	Entire file must be transported to the receiving system prior to beginning processing	Processing begins as soon as first message is received (faster)
Efficiency	Each space (variable) in the record must contain a valid character – reads positions	Variables may be left out if not needed – reads content (more efficient)
Flexibility	Format specified in ICDs, added records require new ICD. Any changes require coordination and changes by all users (more flexible)	Format specified in schemas, modification may be made within schema and should not require user coordination and changes
Conformity	Flat file (old technology) DOD standard – Mandate)	Near Real time (Commercial and

RSSP Data Exchange

Backup Slides

Data Exchange Enhancements

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FY04 (Development/Sustainment):

- Further Segregation by Weapon System Mod (SENSOR, etc.)
- Implement Interfaces – D035A/C, MM User's Group prioritize remaining Interfaces
- ICD Enhancements/GOLD capability via XML BOD (Phase 1 capability)
- EDW XML BOD Interface capability
- Collect data from D035K for retail stock level determination (ASM)
- Segregate data for appropriate comps
- Historical capability for ASM comp results and LR data
- Collect data for CFO reporting
- On-Line Help/Notepad Capability
- Look at bringing in SIRS/CSIS reports/data via EDW
- General cleanup, training, etc.

Data Exchange Enhancements Cont.

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FY05 – FY09 (Development/Sustainment):

- Implement Interfaces – MM User's Group priorities
- Migrate to GCSS-AF IF
- Begin migration of current interfaces thru EDW
- Begin implementation capability for archiving DE data within EDW
- Continue implementing GOLD capability via XML BOD (Phase 2 capability and beyond)
- Continue updating Java Comp in DE with appropriate RMS upgrade capabilities
- Provide capability to pass actual computed results to appropriate budget systems (SAW, ABCS, etc.)
- Continue implementing XML BOD and Portal capabilities on existing interfaces
- EAI capabilities
- General Cleanup, training, etc.

Data Exchange ICDs

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- **ICD13304 - D035T Data –**
  - **This is the data required to enter Packaging, Hazardous, Shipping & Transportation information into D035T. Required when using Government Transportation Process, and when shipping parts Oversees. If using Commercial Transportation Processes, this shouldn't be required.**
- **ICD13305 - D200F Data –**
  - **This is the data that is required for Applications Indentures for API and for Program data required to support Spares Computations. If no transition to Organic SOS, no spares requirements comparisons, or no assessments to budgets based on spares adjustments is needed, then the Applications Programs data portion of this ICD is most likely not required. However, the Parts Indenture data is required.**
- **ICD13306 - D035A/C Data –**
  - **This is the RIMCS and IMS data required for the users to know where a part needs to be shipped. This ICD is required.**
- **ICD13307 - D375/D200A Data –**
  - **This ICD has multiple records to support mostly Spares Computation requirements. However it does have the asset record and the usage record that supports RSSP functions for Metrics/Assessments/etc. If no spares computations need to be run for reasons mentioned in ICD13305, then most likely the only portions that would apply are the Asset Record and the Usage Record.**

Data Exchange ICDs Cont.

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- **Potential ICD Enhancements**
  - **Remove filler fields**
  - **Remove duplicates**
  - **Auto populate fields with data already resident in DE**
  - **Add potential industry nomenclatures as a note under ICD Name**
  - **Identify mandatory elements by action to be accomplished (mainly in the comp area)**
  - **Develop on-line DE training on ICD (Data Source & Transfer)**

D375 Data Exchange

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- **Changing role:**
  - **Initially: Tool for SSIPT (visibility of contractor data for forecasting and budgeting, and source for metrics and analysis)**
  - **Today:**
    - **“Source system” for Weapon System Contractor data (wholesale, peculiar spares)**
    - **“Conduit” for non-transactional data between Contractor ICP’s and AF legacy systems**

AFKS Data Storage Requirements

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- Similar missions and goals
- Need to “sync-up” efforts to avoid redundancy
- DE already has storage and analysis capability (D035T, D200)
- AFKS is gradually incorporating specific data sets from legacy systems, but not all data from systems as yet
- DE and AFKS have met several times – commitment to look at each future legacy system linkup individually to determine best approach and optimum schedule
- Near-term opportunities:
  - Asset management support data (FY04/05)
  - Requirement determination support data (FY04/05)
  - Legacy system data to support C-ICP (FY04/05)

Data Exchange and GOLD

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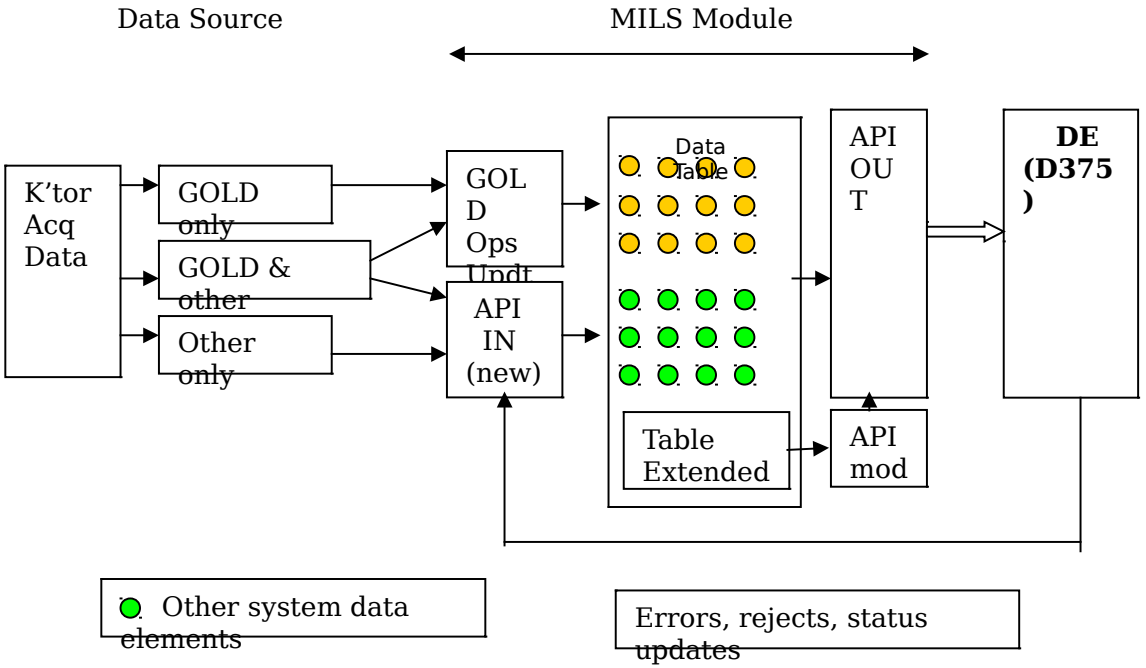
- **Develop D375 Standard for Contractors between GOLD and D375**
  - **GOLD Requirements Determination and Planning Meeting to simplify reporting where possible – 15-17 Jul 03**
  - **Provide interfaces using a phased approach**
    - **Phase 1**
      - **Data Mapping for current D375 interfaces requirements (completed)**
      - **Requirements analysis for D035A/C/T implementation (completed)**
      - **Implementation and documentation of D035A,C,T interfaces**
    - **Phase 2**
      - **Requirements Analysis for D200 implementation**
      - **Implementation and documentation of D200 interfaces**

D375 And GOLD Cont.



Data Exchange and GOLD Cont.

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- **Data Mapping between GOLD and D375**
  - **D035A – Item Manager/POC Data**
    - **100% of data is in GOLD, not in appropriate format for D035A**
  - **D035C – RIMICS Data**
    - **100% of the data is in GOLD, not linked in the way D035C requires it**
  - **D035T – Packaging and Transportation Data (A,B,C,D,H,T Records)**
    - **21% of the data is in GOLD, not in appropriate format and not linked in the way D035T requires it**

Data Exchange and GOLD Cont.

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- **Data Mapping between GOLD and D375 cont.**
  - **Pros**
    - **Fixed cost known, no unknowns for current users, no additional cost for future users**
    - **Standard methodology for collecting/editing data prior to submission to D375**
    - **Standard methodology for the API that will send and receive data between GOLD and D375**
    - **No programming to D375 ICDs**
  - **Cons**
    - **Internal data mapping still required**
    - **Some duplicate effort**
    - **Who Pays?**

D375/GOLD Interface Status Report

Initial Analysis And Data Mapping August 2003

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Overview

- **Develop Data Exchange Standard For RSSP Contractors Between GOLD And D375**
  - **Simplify Reporting Where Possible**
  - **Provide Interfaces Using A Phased Approach**
    - **Phase 1**
      - Data Mapping For Current D375 Interface Requirements
      - Requirements Analysis For D035 Implementation
      - Implementation and Documentation Of D035 Interfaces
    - **Phase 2**
      - Requirements Analysis For D200 Implementation
      - Implementation and Documentation Of D200 Interfaces

Overview

- **Phase 1 Deliverables**
  - **Final Data Mapping For D035 Interfaces**
  - **Initial Data Mapping For D200 Interfaces**
  - **Requirements Analysis And GOLD Modifications For D035 Implementation**
  - **Implementation Of D035 Interfaces**
  - **GOLD User Documentation For D035 Interface Operations And Maintenance**

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Overview

- **Phase 2 Deliverables**
  - **Final Data Mapping For D200 Interfaces**
  - **Requirements Analysis And GOLD Modifications For D200 Implementation**
  - **Implementation Of D200 Interfaces**
  - **GOLD User Documentation For D200 Interface Operations And Maintenance**

Phase 1 - D035 System Data

- **D035A – Inventory Manager and Equipment Specialist Information**
  - **One Transaction – One New GOLD Table**
  - **New Screen To Load Expanded Information**
  - **Data Stored In Expanded GOLD Table**
  - **Option For Single ID For All Stock Numbers**
  - **Initial Registration Of All Managers**
  - **Follow-on Registration As Managers Change**

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Phase 1 - D035 System Data

- **D035C – Reparable Item Movement Control System (RIMCS) Information**
  - **One Transaction – One New GOLD Table**
  - **API To Feed Data From Corporate Systems**
  - **New Screen To Update Individual Records**
  - **Option For Single Common Address Set For All/Selected Stock Numbers**
  - **Mass Registration For Common Address Set**

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Phase 1 - D035 System Data

- **D035T – Transportation Information**
  - **Five Transactions – Five New GOLD Tables**
  - **API To Feed Data From Corporate Systems**
  - **New Screens To Update Individual Records**
  - **Three Transactions Are Optional Depending On The Characteristics Of The Stock Number**
  - **Hazardous Material Reporting Moved To Separate Process**

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Phase 1 - D035 System Data

- **D035T – Hazardous Material Information**
  - **Analysis Not Complete At This Time**
  - **Initial Estimates**
    - **Two Or Three Transactions and New GOLD Tables**
    - **API To Feed Data From Corporate Systems**
    - **New Screens To Update Individual Records**
    - **All Mandatory Data, When Required, Combined In Single Transaction**
    - **Additional Transaction(s) Optional Depending On Stock Number Characteristics**

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Phase 2 - D200 System Data

- **D200A – SIRS Information**
  - **Final Analysis In Phase 2**
  - **Initial Analysis**
    - **Six Transactions – Six New GOLD Tables**
    - **API To Feed Data From Corporate Systems**
    - **New Screens To Update Individual Records**
    - **Standardized ICP Asset Reporting From GOLD Accountable Records**
    - **Other Information From External Sources**

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Phase 2 - D200 System Data

- D200F – API Information
  - Final Analysis In Phase 2
  - Initial Analysis
    - Five Transactions – Five New GOLD Tables
    - API To Feed Data From Corporate Systems
    - New Screens To Update Individual Records
    - Most Information External To GOLD

Reformed Supply Support Program (RSSP) Data Exchange

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RSSP and the Data Exchange

- **Overview:**
  - What is RSSP
  - Purpose of RSSP Data Exchange
  - Initial approach (DE)
  - Current Capability (DE)
  - Future Interfaces (DE)
  - Automated File Transfer capability today
  - Automated File Transfer capability tomorrow
  - Questions

RSSP and the Data Exchange

Reformed Supply Support Program (RSSP)

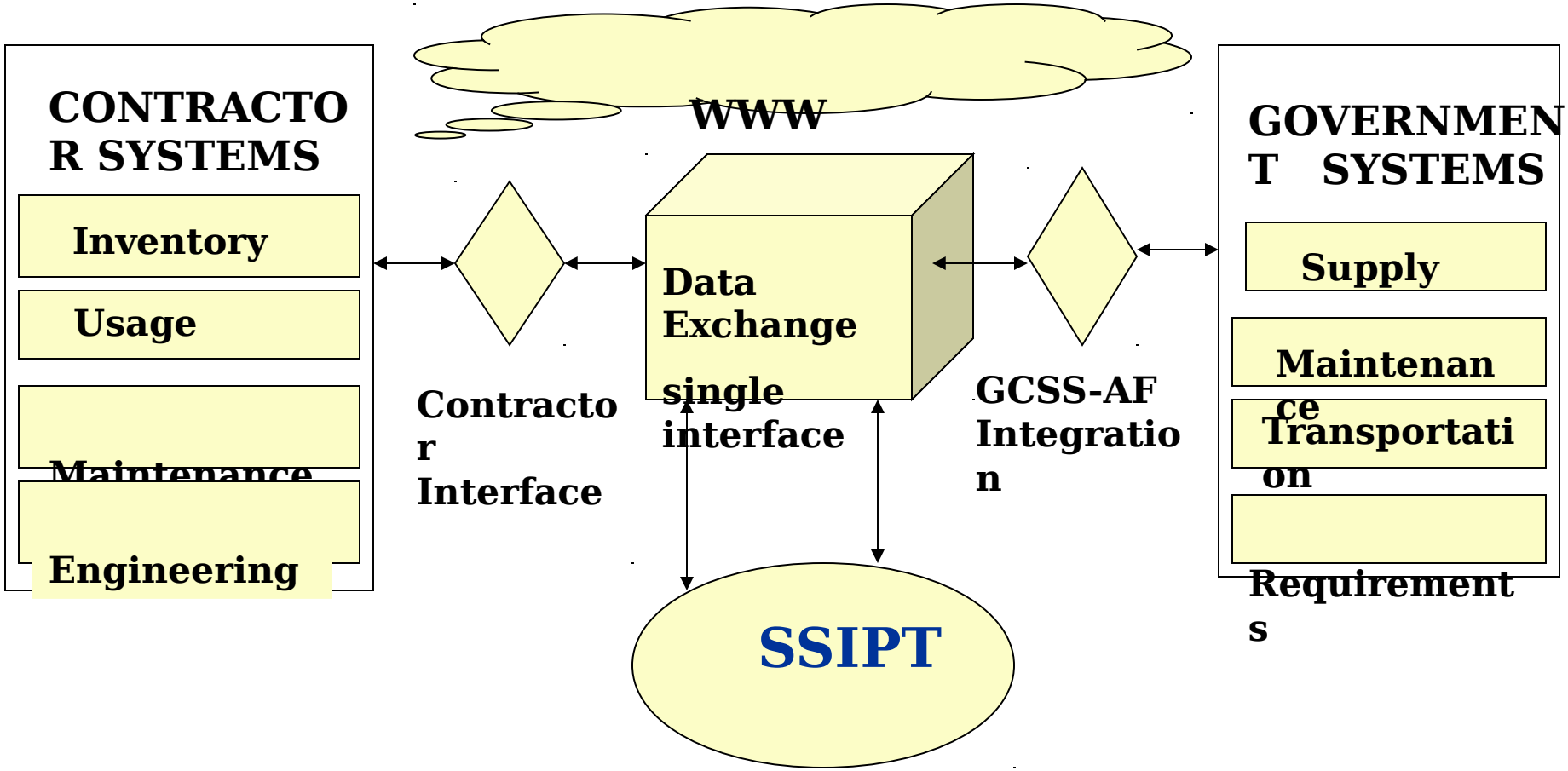
- A re-engineering effort designed to form a partnership between Government and Industry that streamlines the weapon system spares acquisition process
- The process that the AF will use to bring initial weapon system spares and repair parts into the inventory
- The weapon system contractor acts as a wholesale Inventory Control Point (ICP) and manages peculiar items during an extended Interim Supply Support (ISS) period until transition to a G-ICP, CLS, etc.
- During ISS the contractor is responsible for the wholesale inventory management of items such as determining spares levels, cataloging items, entering packaging and handling data, and providing asset and consumption data to support spares forecasting and transition package buy decisions

RSSP and the Data Exchange

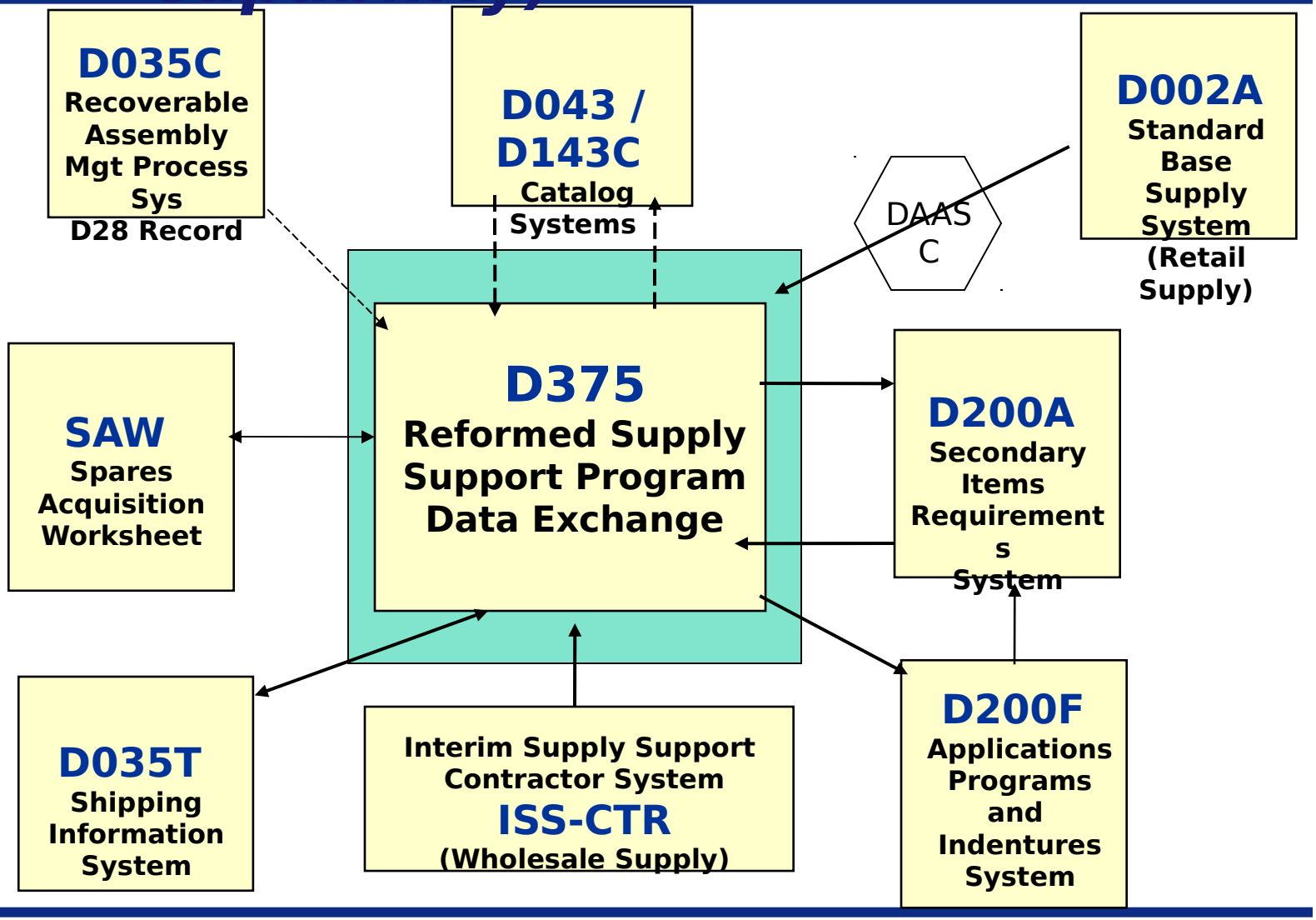
Purpose of the RSSP Data Exchange

- To make spares information, captured during the initial acquisition stages, readily available to a variety of end users
  - Uses GCSS-AF technology to automate the data collection process from weapon system contractors and provides the data in a useful form to the SSIPT (and other managers) to support:
    - The transition decision
    - Budgetary projections
    - Asset visibility
    - Program assessments during acquisition
    - Queries and reports
    - Seamless transfer of information at transition

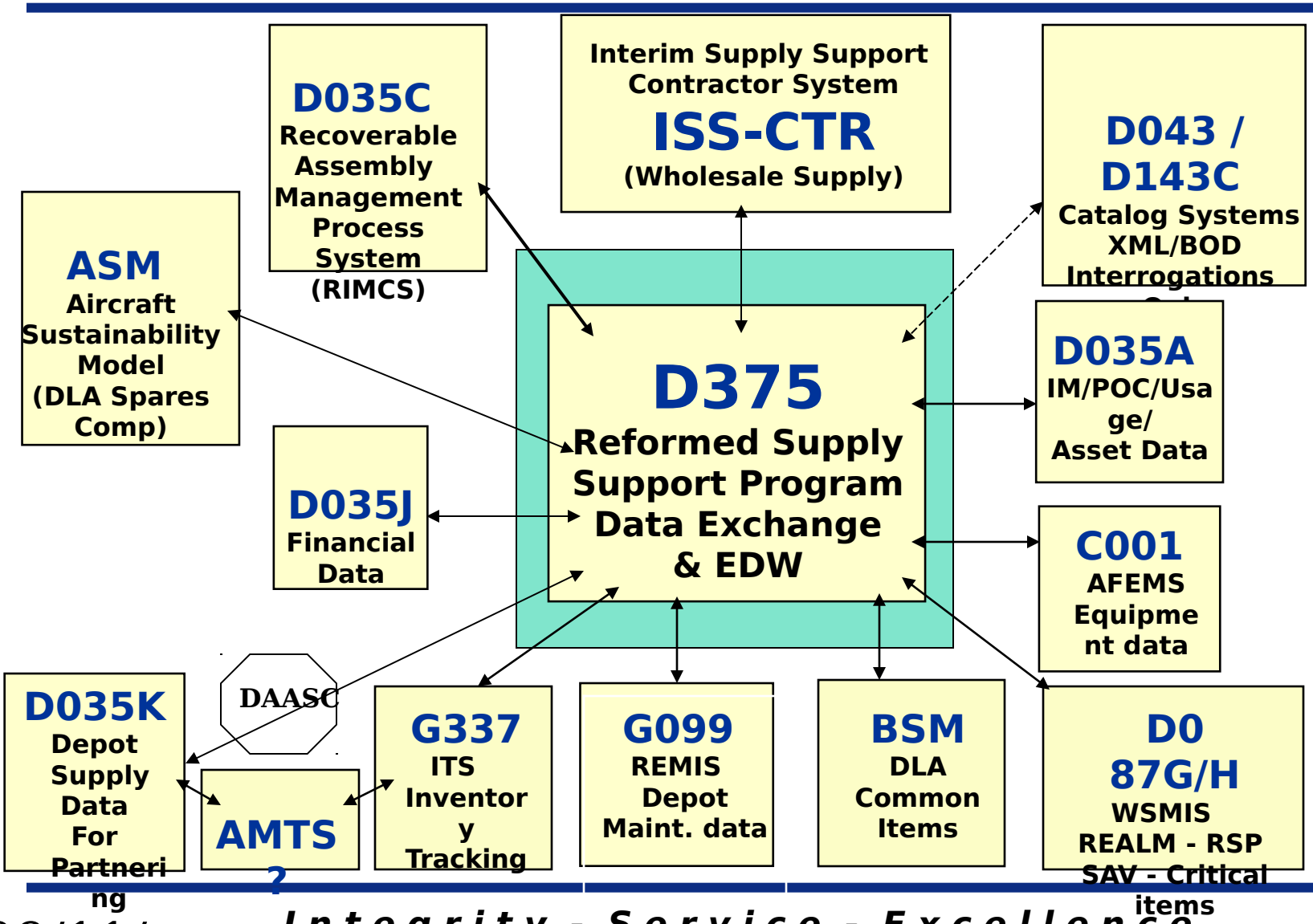
Data Exchange (Initial approach)



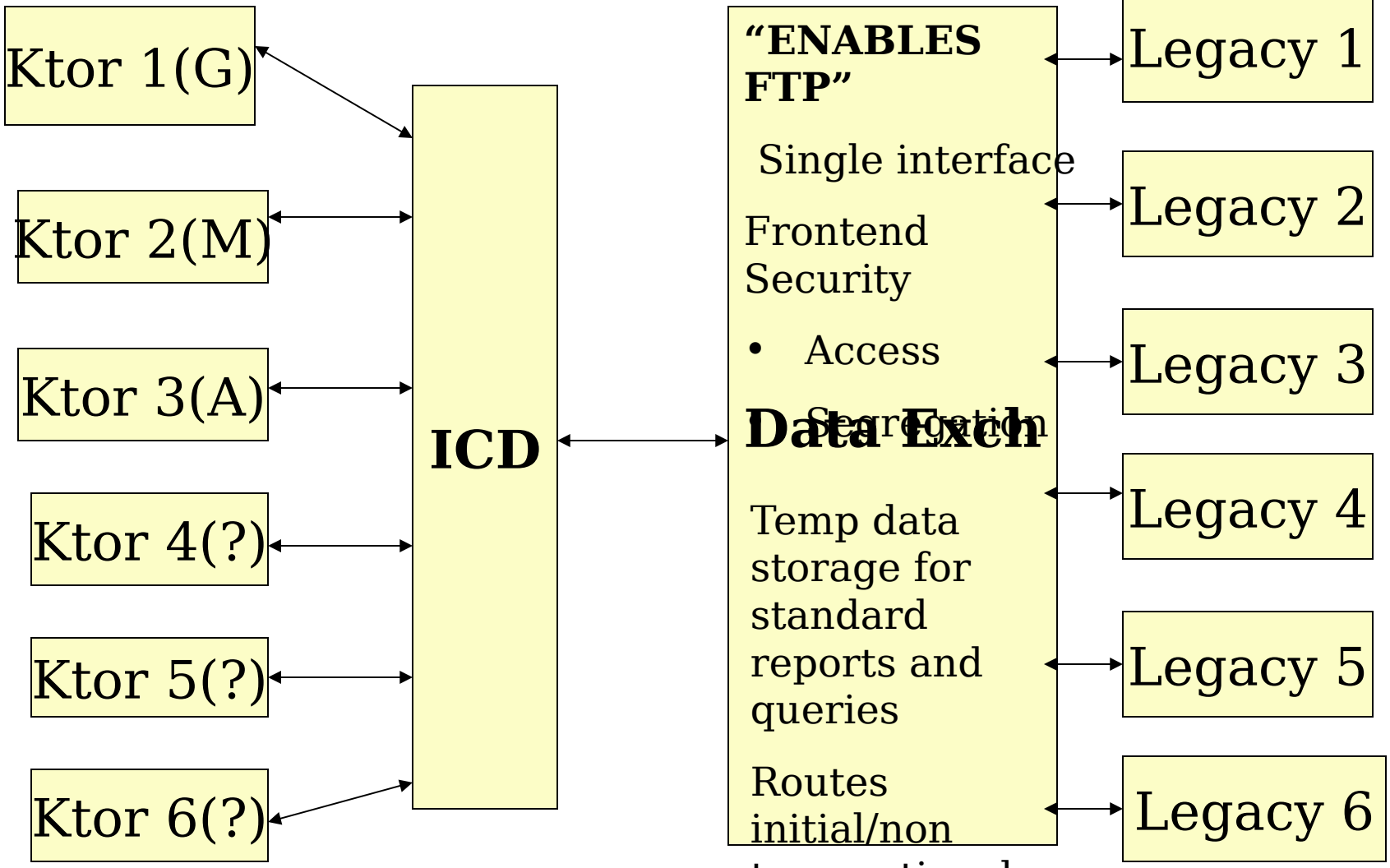
Data Exchange (Current Capability)



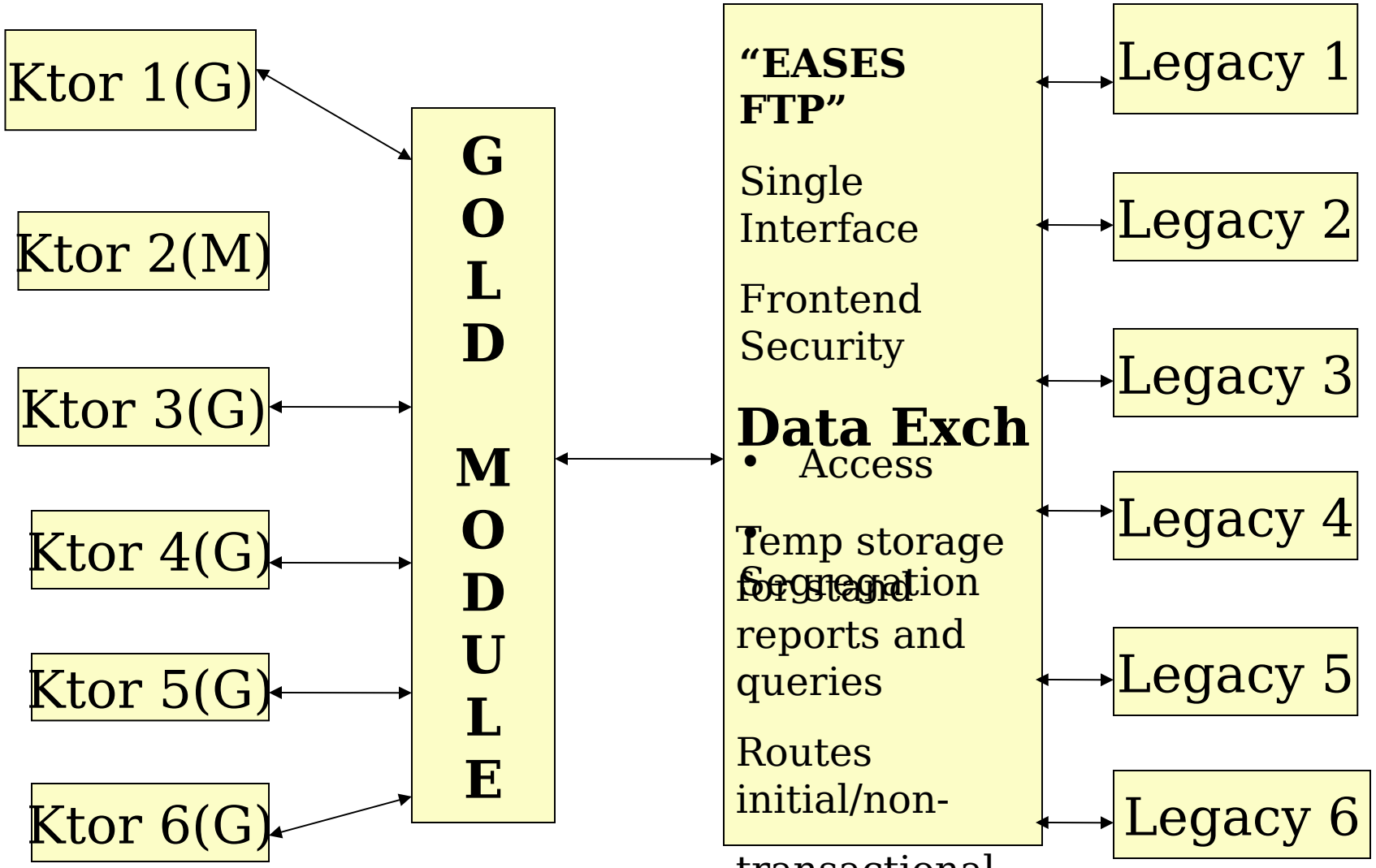
Data Exchange (Future Interfaces)



RSSP Automated File Transfer



DE Automated File Transfer (better approach)

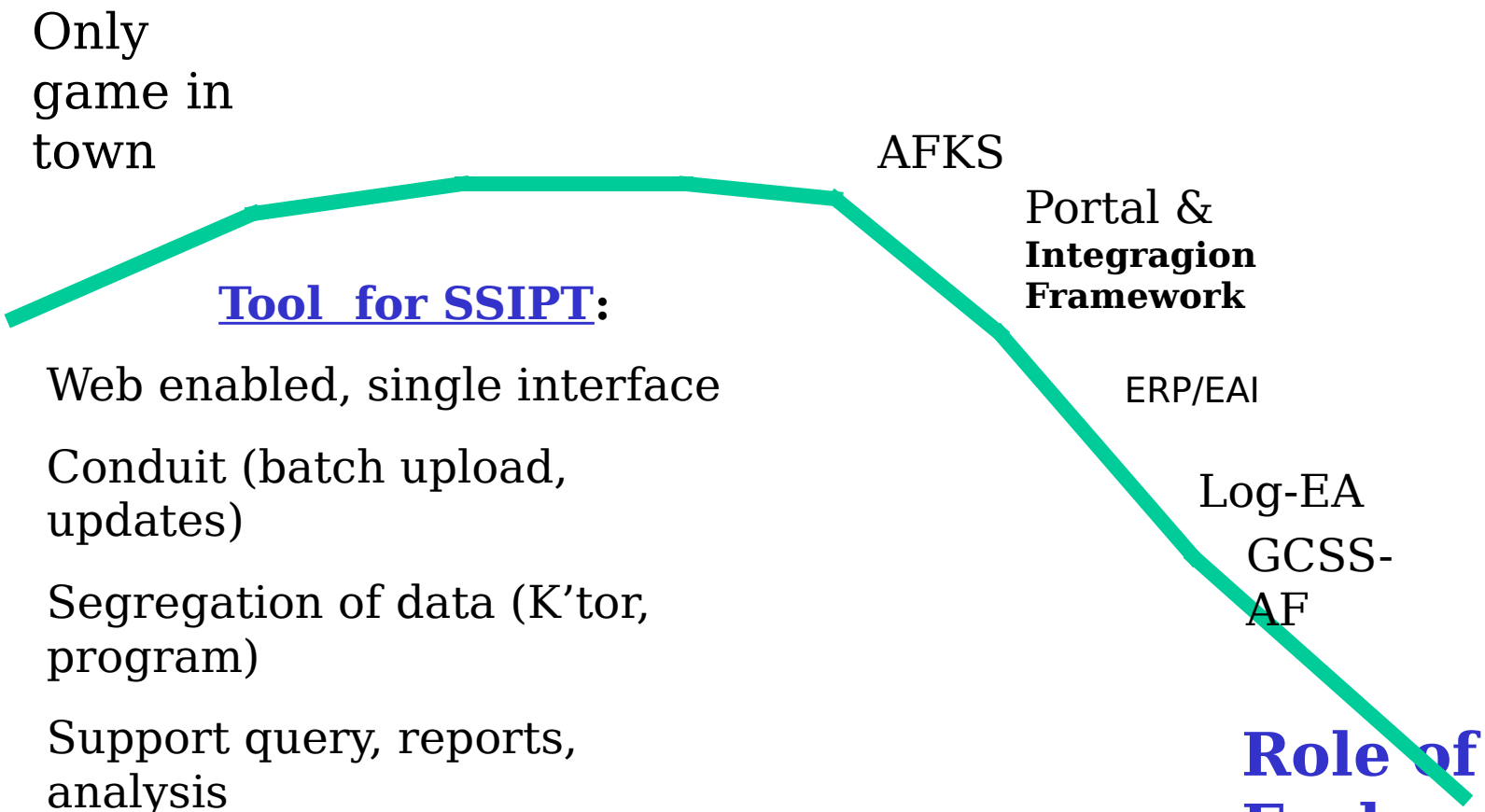


Summary

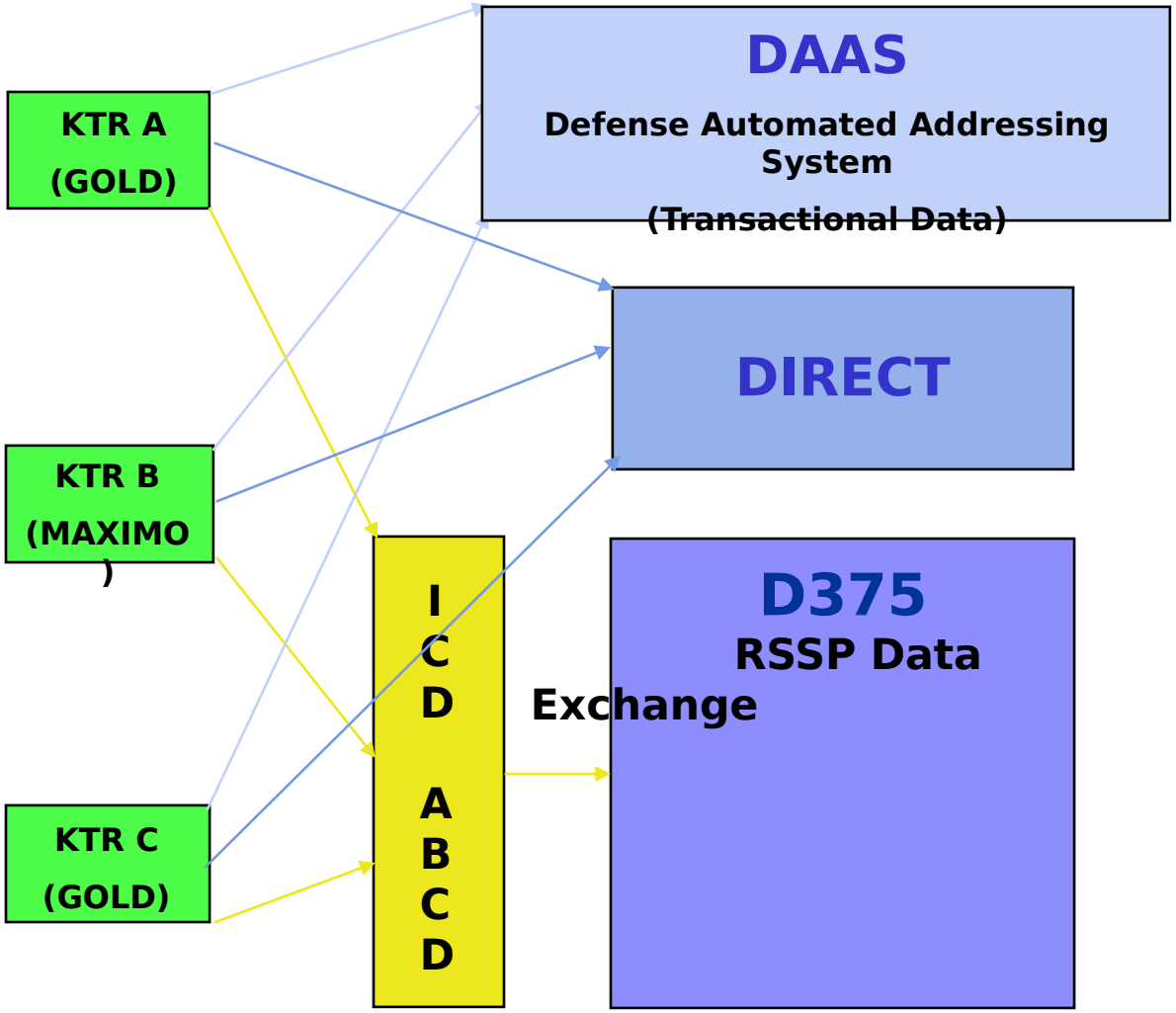
Moving Contractor Data to Legacy Systems via the Data Exchange

- Single entry for contractor (Web Enabled)
- More user-friendly GUI interface
- Role based security (GCSS-AF) in place
- Recognizes contractor ICP now
- Can segregate by weapon system now
- Narrower data set = better response time
- Can tailor weapon system reports at desktop
- Permits easy access to historical/archived data
- Permits automated initial uploads

DE VISION: (Visibility of Contractor Spares)



Tool for SSIPT:

- Web enabled, single interface
- Conduit (batch upload, updates)
- Segregation of data (K'tor, program)
- Support query, reports, analysis
- Reduced costs (ICDs and training)
- Conform to GCSS-AF goals

Data Exchange (Current Capability)